

Claims

What is claimed is:

5

Sub A17
1. A home gateway system for home automation and
security comprising:

10

a wireless local loop transceiver;
a home automation controller capable of sending and receiving
a message with the wireless local loop transceiver; and
a home security controller capable of sending and receiving a
message with the wireless local loop transceiver and the home
automation controller.

15

2. The home gateway system of claim 1, further including a
smart card interface capable of sending a plurality of instructions to
the home automation controller.

20

3. The home gateway system of claim 1, further including a
voice processing system coupled to the home security system.

4. The home gateway system of claim 3, wherein the voice
processing system includes a speaker verification module.

25

5. The home gateway system of claim 3, wherein the voice processing system includes a speech recognition module.

5 6. The home gateway system of claim 1, further including a switch connecting the wireless local loop telephony connection to the home security controller.

10 7. The home gateway system of claim 1, further including a plurality of sensors connected to the home security controller.

Sub A27

8. A method of operating a home gateway system for home automation and security, comprising the steps of:

15 (a) receiving a request for access to a home automation and security features from a user;

(b) performing a speaker verification of the user;

(c) when the user is verified, allowing the user access to the home automation and security features; and

20 (d) receiving a voiced instruction.

9. The method of claim 8, wherein step (a) further includes the steps of:

25 (a1) inputting an electronic address of the home gateway system by the user;

(a2) establishing an electronic connection with the home gateway system;

(a3) selecting the home automation and security features from a plurality of options.

5

10. The method of claim 9, wherein the step of inputting the electronic address includes the step of dialing a phone number.

11. The method of claim 9, wherein the step of establishing
10 the electronic connection includes the step of setting up a wireless local loop telephony connection.

12. The method of claim 8, wherein step (b) further includes the steps of:

15

(b1) requesting a user to speak an access code;

(b2) performing a speech recognition on the access code;

17 (b3) when the access code is recognized and belongs to a set of approved access codes, performing a speaker verification;

20

13. The method of claim 12, further including the steps of:

25 (b4) when the speaker verification fails, requesting a user enter a personal identification number.

14. The method of claim 8, further including the steps of:

(e) performing a speech recognition of the voiced instruction;

(f) converting the voiced instruction into an electronic

5 instruction;

(g) sending the electronic instruction to a home automation and security controller.

10 *Sub A³⁷* 15. A method of operating a home gateway system for home automation and security, comprising the steps of:

(a) monitoring a parameter;

15 (b) when the parameter exceeds a defined range, sending a message containing an electronic address to a processor;

(c) establishing a communication link to the electronic address over a wireless local loop; and

(d) transmitting the message to the electronic address.

20 16. The method of claim 15, wherein step (b) further includes the step of:

25 (b1) when the parameter is a forceful entry signal, sending the message that contains a police telephone number to the processor.

17. The method of claim 15, wherein step (d) further includes the step of:

5 (d1) speech synthesizing a portion of the message to form an audio message;

(d2) transmitting the audio message to the electronic address.

10

Sub AII
18. A home gateway system for home automation and security comprising:

15

a wireless local loop transceiver;

a switch connected to the wireless local loop transceiver;

a processor connected to the switch;

a voice processing system connected to the processor;

a router coupled to the switch;

a home automation controller connected to the router; and

20

a home security controller connected to the router.

25

19. A method of operating a home gateway system for home automation and security, comprising the steps of:

- (a) dialing a telephone number of the home gateway system by a user;
- (b) establishing a wireless local loop connection with the home gateway system;
- 5 (c) selecting a home automation and security features from a plurality of options;
- (d) performing a speaker verification of the user;
- (e) when the user is verified, allowing the user access to the home automation and security features;
- 10 (f) receiving a voiced instruction to setup a home security controller in a warning mode;
- (g) monitoring a forceful entry signal;
- (h) when the forceful entry signal exceeds a defined range, sending a message containing a police telephone number to a processor;
- 15 (i) establishing a communication link to the police telephone number over a wireless local loop; and
- (j) transmitting the message to the police telephone number.

20